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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,922	06/13/2006	Athanasios Athanasiou	2003P01911WOUS	9213
	7590 05/06/200 PPLIANCES CORPOR	EXAMINER		
INTELLECTUAL PROPERTY DEPARTMENT			NGHIEM, MICHAEL P	
100 BOSCH BOULEVARD NEW BERN, NC 28562			ART UNIT	PAPER NUMBER
			2863	
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			05/06/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/582,922	ATHANASIOU, ATHANASIOS			
Office Action Summary	Examiner	Art Unit			
	MICHAEL P. NGHIEM	2863			
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 10 Fe	ehruary 2009				
·— · · · · · · · · · · · · · · · · · ·	action is non-final.				
·	_				
closed in accordance with the practice under E	•				
Disposition of Claims					
4)⊠ Claim(s) <u>10-21</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) <u>10-21</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on 10 February 2009 is/are		d to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3.☑ Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.			
Attachment(s)	, , □	(DTO 440)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P				
Paper No(s)/Mail Date	6) [Other:				

DETAILED ACTION

The Amendment filed on February 10, 2009 has been considered.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the memory connected to the sensor (claims10, 20) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claim 21 is objected to because of the following informalities: "the parameter values" (line 11) and "the remote service device" (line 12) lack antecedent basis.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10 and 14-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishio et al. (US 6,553,774).

Regarding claim 10, Ishio et al. discloses a household appliance (refrigerator, Abstract, line 1) having at least one sensor (detector, Abstract, line 4) for detecting at least one operating parameter of the household appliance (Abstract, lines 4-6), a memory

(Abstract, line 7) connected permanently to the sensor for periodically recording the value of the operating parameter detected by the sensor (memory stores conditions detected by detector, Abstract, lines 4-8) and an interface (interface between memory and diagnostic device, Abstract, line 8) for reading out the content of the memory (Abstract, lines 8-10).

Regarding claim 14, Ishio et al. discloses the household appliance includes a housing (housing of refrigerator, Abstract, line 1) and the memory is built in the housing (memory is part of self-diagnosis apparatus of refrigerator, housing of refrigerator, Abstract, lines 1-8).

Regarding claim 15, Ishio et al. discloses the household appliance includes at least one of a refrigerating device (Abstract, line 1).

Regarding claim 16, Ishio et al. discloses a method for determining a cause of failure on a household appliance (Abstract; column 2, lines 1-12), the method comprising the following acts:

periodically detecting at least one operating parameter of the household appliance and recording the detected value in a memory at least during normal operation of the household appliance (Abstract, lines 4-8);

reading out the memory in the case of a fault (Abstract, lines 8-10);

tracing the cause of the fault from the parameter values which have been read out (performing diagnosis, column 2, lines 1-12; it is inherent that a cause of fault is found since an improvement action is selected by the diagnostic means, column 2, lines 6-7).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishio et al. in view of Severn (GB 2 152 673).

Ishio et al. discloses all the claimed limitations as discussed above except:

- regarding claims 11 and 12, the first interface includes an interface to a data network, especially to a telephone network.
- regarding claim 13, the first interface includes a cordless interface.

Nevertheless, Severn discloses the first interface includes an interface to a data network, especially to a telephone network (page 4, lines 102-105), the first interface

includes a cordless interface (mobile version of serial communication interface, page 4, lines 119-121). This would increase the range of communication for alarm reporting (page 4, lines 105-107).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Ishio et al. with telephone interface or cordless interface as disclosed by Severn for the purpose of increasing the communication range for reporting alarms.

Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishio et al..

Ishio et al. discloses all the claimed limitations as discussed above except the recorded parameter values are depleted or overwritten after a first predetermined storage time and deleted after a second predetermined storage time.

Nevertheless, Ishio et al. discloses that the conditions parameters are stored in memory for a predetermined time (Abstract, lines 6-7). Thus, it is obvious that the conditions parameters would either be depleted, overwritten, or deleted after a predetermined time.

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to deplete, overwrite, or delete parameter values after predetermined storage times for the purpose of reusing existing memory spaces. Thus, memory can be efficiently used and saved.

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ishio et al. in view of Finnegan et al. (US 4,482,785).

Ishio et al. discloses all the claimed limitations as discussed above except transferring the recorded parameter values from the household appliance to a separate device and performing the act of tracing the cause of the fault at the separate device.

Nevertheless, Finnegan et al. discloses transferring the recorded parameter values from the household appliance to a separate device (remote control and monitor unit 12, Fig. 1d) and performing the act of tracing the cause of the fault at the separate device (column 7, lines 52-56).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to provide Ishio et al. with a separate device for the purpose of performing the diagnosis. Having a remote, separate, and central processing system would increase the capability to process data since data can be collected from a wider range of areas.

Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishio

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et al. in view of Yoshida et al. (US 6,438,973).

Ishio et al. discloses all the claimed limitations as discussed above except a remote

service device in selective operative communication with the interface for use by a

service designate for diagnosing problems with the appliance.

Nevertheless, Yoshida et al. discloses a remote service device (device the stored data

is downloaded to, Abstract, lines 5-7) in selective operative communication with the

interface for use by a service designate (downloaded by service technician, Abstract,

lines 5-7) for the purpose of diagnosing problems with the appliance (column 2, lines

46-49).

Therefore, it would have been obvious to a person having ordinary skill in the art at the

time the invention was made to provide Ishio et al. with remote service device as

disclosed by Yoshida et al. for the purpose of diagnosing problems with the appliance.

Response to Arguments

Applicant's arguments filed on February 10, 2009 have been fully considered but

they are not persuasive.

With respect to the drawing objection, Applicants argue that the memory (9) is illustrated as being connected to the sensor.

Examiner's position is that the figure shows that the memory (9) is connected to the electronics (7) but not to the sensor (8).

With respect to the 35 USC 102/103 rejections, Applicants argue that Ishio is directed to a self-diagnosing apparatus for a refrigerator. The present invention, as claimed, does not provide a self-diagnosing apparatus for a refrigerator, but rather provides a data recordation system which can provide data to a remote device for evaluation by service personnel to determine the failure cause within the appliance, either on-site or from a central service center.

Examiner notes that claims 10-19 do not recite providing data to a remote device for evaluation by service personnel to determine the failure cause within the appliance. Nevertheless, Ishio discloses, regarding claim 10, a household appliance (refrigerator, Abstract, line 1) having at least one sensor (detector, Abstract, line 4) for detecting at least one operating parameter of the household appliance (Abstract, lines 4-6), a memory (Abstract, line 7) connected permanently to the sensor for periodically recording the value of the operating parameter detected by the sensor (memory stores conditions detected by detector, Abstract, lines 4-8) and an interface (interface

between memory and diagnostic device, Abstract, line 8) for reading out the content of the memory (Abstract, lines 8-10).

Furthermore, Ishio discloses, regarding claim 16, a method for determining a cause of failure on a household appliance (Abstract; column 2, lines 1-12), the method comprising the following acts:

periodically detecting at least one operating parameter of the household appliance and recording the detected value in a memory at least during normal operation of the household appliance (Abstract, lines 4-8);

reading out the memory in the case of a fault (Abstract, lines 8-10);

tracing the cause of the fault from the parameter values which have been read out (performing diagnosis, column 2, lines 1-12; it is inherent that a cause of fault is found since an improvement action is selected by the diagnostic means, column 2, lines 6-7).

Examiner's positions regarding new claims 20 and 21 have been discussed above. Yoshida et al. discloses providing data to a remote device for evaluation by service personnel to determine the failure cause within the appliance (Abstract, lines 5-7; column 2, lines 46-49).

Applicants further argue Severn '673 teaches a telephone interface or cordless interface. Nevertheless, a combination of Severn '673 and Ishio '774 would not result in

the present invention. Further, there is no teaching or motivation to combine Ishio '774 with Severn '673.

Examiner's position is that a combination of Severn '673 and Ishio '774 would result in the present invention as discussed above regarding claims 11-13. Severn discloses the first interface includes an interface to a data network, especially to a telephone network (page 4, lines 102-105), the first interface includes a cordless interface (mobile version of serial communication interface, page 4, lines 119-121). This would increase the range of communication for alarm reporting (page 4, lines 105-107).

Applicants further argue Finnegan '785 fails to cure the deficiencies of Ishio '774 and, a combination of Finnegan '785 and Ishio '774 would not result in the present invention. In addition, there is no teaching or motivation to combine Finnegan '785 and Ishio '774.

Examiner's position is that a combination of Finnegan '785 and Ishio '774 would result in the present invention as discussed above regarding claim 19. Finnegan et al. discloses transferring the recorded parameter values from the household appliance to a separate device (remote control and monitor unit 12, Fig. 1d) and performing the act of tracing the cause of the fault at the separate device (column 7, lines 52-56). Having a remote, separate, and central processing system would increase the capability to process data since data can be collected from a wider range of areas.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (571) 272-2277. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michael P. Nghiem/

Primary Examiner, GAU 2863

May 1, 2009